

WHAT IS CLAIMED IS:

1. A system, comprising:
 - 5 a distributed store comprising a primary state of session data accessible by a plurality of application servers, wherein the session data comprises a plurality of attributes; and
 - a first one of the application servers comprising a client state of the session data
10 accessible by one or more processes;
 - wherein the first application server is configured to provide a set of attributes of the session data for synchronizing the primary state with the client state, wherein the first application server is configured to exclude from the set
15 immutable attributes of the session data;
 - wherein the distributed store is configured to synchronize the primary state with the client state according to the provided set of attributes.
- 20 2. The system as recited in claim 1, wherein the first application server is further configured to exclude attributes accessed only with an immutable access from the set of attributes for synchronizing the primary state with the client state.
- 25 3. The system as recited in claim 1, wherein the first application server is further configured to exclude attributes that were not accessed from the set of attributes for synchronizing the primary state with the client state.
- 30 4. The system as recited in claim 1, wherein the immutable attributes include one or more attributes which have been designated as immutable attributes in response to user input.

5. The system as recited in claim 4, wherein the immutable attributes include one or more immutable standard programming language classes.

5 6. The system as recited in claim 4, wherein the programming language is Java.

7. The system as recited in claim 1, wherein the first application server is further configured to compare the set of attributes to a benchmark of the client state to
10 determine a subset of the set of attributes that are modified; and wherein, to synchronize the primary state, the distributed store is further configured to use only the modified attributes.

8. The system as recited in claim 7, wherein, to compare the set of attributes
15 to a benchmark, the first application server is configured to perform a binary comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

9. The system as recited in claim 7, wherein, to compare the set of attributes
20 to a benchmark, the first application server is configured to perform an object graph comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

10. A system, comprising:
25 a distributed store comprising a primary state of session data accessible by a plurality of application servers, wherein the session data comprises a plurality of attributes;

30 an first one of the application servers comprising a client state of the session data

accessible by one or more processes;

wherein the first application server is configured to provide a set of attributes of the session data for synchronizing the primary state with the client state,
5 wherein the first application server is configured to exclude attributes accessed only with an immutable access from the set of attributes of the session data for synchronizing the primary state with the client state; and

10 wherein the distributed store is configured to synchronize the primary state with the client state using the provided set of accessed attributes.

11. The system as recited in claim 10, wherein the first application server is configured to exclude attributes that were not accessed from the set of attributes of the session data for synchronizing the primary state with the client state.

12. The system as recited in claim 10, wherein the set further excludes immutable attributes of the session data.

13. The system as recited in claim 12, wherein the immutable attributes
20 include one or more attributes which have been designated as immutable attributes in response to user input.

14. The system as recited in claim 12, wherein the immutable attributes
25 include one or more immutable standard programming language classes.

15. The system as recited in claim 12, wherein the programming language is Java.

16. The system as recited in claim 10, wherein the first application server is
30 further configured to compare the set of attributes to a benchmark of the client state to

determine a subset of the set of attributes that are modified; and wherein, to synchronize the primary state, the distributed store is further configured to use only the modified attributes.

5 17. The system as recited in claim 16, wherein, to compare the set of attributes to the benchmark, the first application server is configured to perform a binary comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

10 18. The system as recited in claim 16, wherein, to compare the set of attributes to the benchmark, the application server is configured to perform an object graph comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

15 19. A system, comprising:

a distributed store means comprising a primary state of session data accessible by
a plurality of application servers, wherein the session data comprises a
plurality of attributes;

20 a first one of the application servers comprising a client state of the session data
accessible by one or more processes;

25 coupled to or within the first application server, means for providing a set of
attributes of the session data for synchronizing the primary state with the
client state, wherein the means for providing are configured to exclude
immutable attributes of the session data from the set of attributes of the
session data for synchronizing the primary state with the client state; and

30 means for synchronizing the primary state with the client state using the provided

set of attributes.

20. The system as recited in claim 19, wherein the means for providing are further configured to exclude attributes accessed only with an immutable access from the set of attributes of the session data for synchronizing the primary state with the client state.

21. The system as recited in claim 19, wherein the means for providing are further configured to exclude attributes that were not accessed from the set of attributes of the session data for synchronizing the primary state with the client state.

22. The system as recited in claim 19, further comprising:

means for comparing the set of attributes to a benchmark of the client state to determine a subset of the set of attributes that are modified; and

wherein said means for synchronizing the primary state comprises means for using only the modified attributes.

23. The system as recited in claim 22, wherein said means for comparing comprises means for performing a binary comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

24. The system as recited in claim 22, wherein said means for comparing comprises means for performing an object graph comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

25. A method comprising:

providing access to a primary state of session data stored by a distributed store to a plurality of application servers, wherein the session data comprises a plurality of attributes;

5

a first one of the application servers providing access to a client state of the session data comprised to one or more processes;

10

providing a set of attributes of the session data for synchronizing the primary state with the client state, wherein said providing comprises excluding immutable attributes of the session data from the set of attributes of the session data for synchronizing the primary state with the client state; and

15

synchronizing the primary state with the client state using the provided set of attributes.

20

26. The method as recited in claim 25, wherein said providing further comprises excluding attributes accessed only with an immutable access from the set of attributes of the session data for synchronizing the primary state with the client state.

25

27. The method as recited in claim 25, wherein said providing further comprises excluding attributes that were not accessed from the set of attributes of the session data for synchronizing the primary state with the client state.

28. The method as recited in claim 25, further comprising:

comparing the set of attributes to a benchmark of the client state to determine a subset of the set of attributes that are modified; and

30

wherein said synchronizing the primary state comprises synchronizing according

to only the modified attributes.

29. The method as recited in claim 28, wherein said comparing comprises performing a binary comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

30. The method as recited in claim 28, wherein said comparing comprises performing an object graph comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

31. An article of manufacture comprising software instructions executable to implement:

providing access to a primary state of session data stored by a distributed store to a plurality of application servers, wherein the session data comprises a plurality of attributes;

a first one of the application servers providing access to a client state of the session data comprised to one or more processes;

providing a set of attributes of the session data for synchronizing the primary state with the client state, wherein said providing comprises excluding immutable attributes of the session data from the set of attributes of the session data for synchronizing the primary state with the client state; and

synchronizing the primary state with the client state using the provided set of attributes.

32. The article of manufacture as recited in claim 31, wherein said comparing comprises performing a binary comparison of the set of attributes and the benchmark of

the session data to determine a subset of the set of attributes that are modified.

33. The article of manufacture as recited in claim 31, wherein said providing further comprises excluding attributes that were not accessed from the set of attributes of the session data for synchronizing the primary state with the client state.

34. The article of manufacture as recited in claim 31, wherein the software instructions are further executable to implement:

10 comparing the set of attributes to a benchmark of the client state to determine a subset of the set of attributes that are modified; and

wherein said synchronizing the primary state comprises synchronizing according only to the modified attributes.

15

35. The article of manufacture as recited in claim 34, wherein said comparing comprises performing a binary comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.

20

36. The article of manufacture as recited in claim 34, wherein said comparing comprises performing an object graph comparison of the set of attributes and the benchmark of the session data to determine a subset of the set of attributes that are modified.